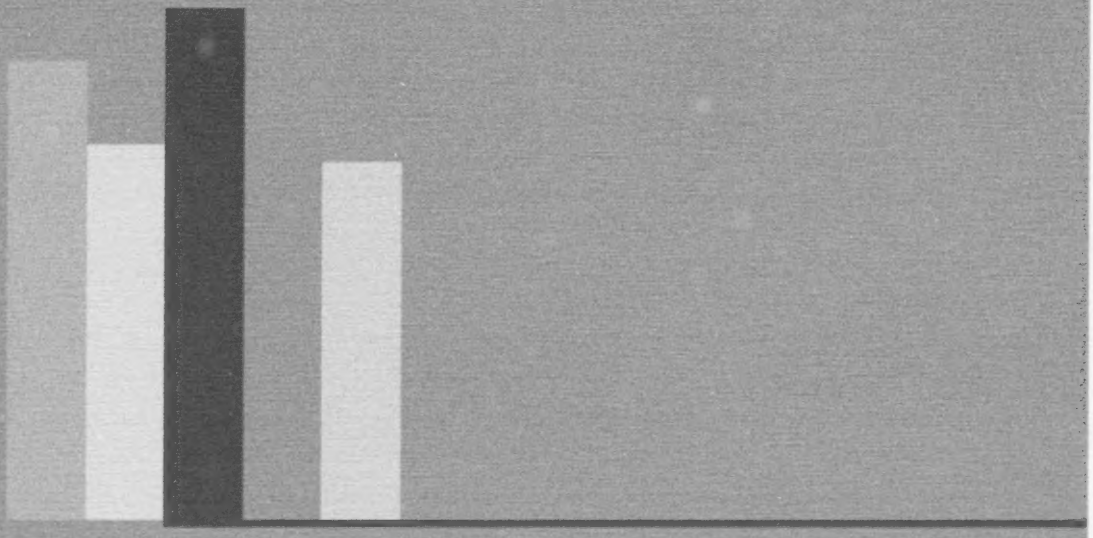


# Alberta's supply outlook model: 2013 - 2023

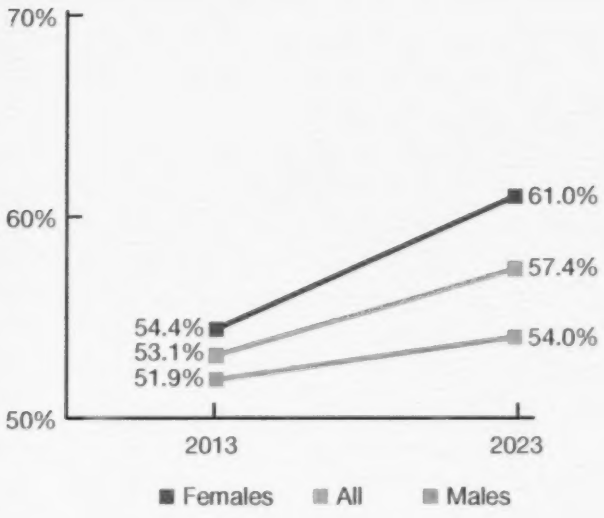
education and skills

Alberta Government

# Highlights

The proportion of Albertans with a post-secondary education is expected to increase from 53.1% to 57.4% over the forecast period of 2013 to 2023.

More females than males, 61% compared to 54%, are expected to obtain a post-secondary education by 2023.




More people will graduate from education, humanities, social science, physical and life sciences, mathematical and computer sciences at universities than at college and trade institutions.

More people will graduate from visual and performing arts, business, architecture and engineering, agriculture, health, and personal services at college and trade institutions than at universities.

At college and trade institutions, a higher percentage of males than females will graduate from physical and life sciences, mathematical and computer sciences, architecture and engineering, and agriculture. Females are expected to have higher percentages in education, business, visual and performing arts, social sciences, and health.

Of those Albertans with university degrees, females are more likely than males to graduate in education and health fields. Males are more likely to graduate in architecture and engineering and mathematical and computer science.

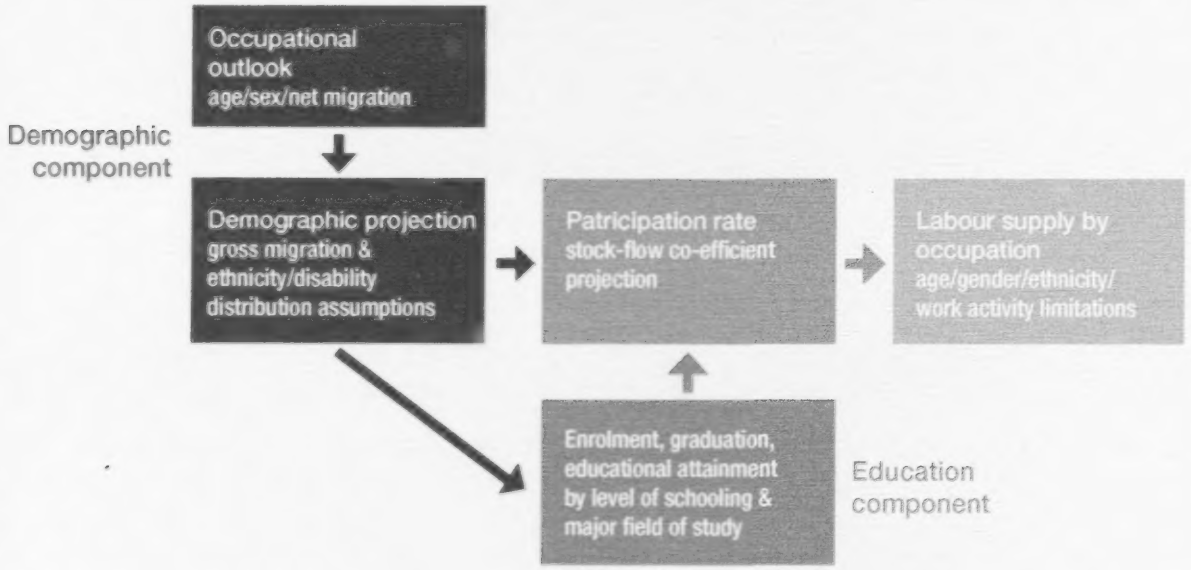
# Introduction

Every two years Alberta Jobs, Skills, Training and Labour (JSTL) produces Alberta's Occupational Demand and Supply Outlook Models[1]. Alberta's supply outlook model provides labour supply forecasts by occupation covering a 10-year forecast period. The model contains 30 linked sub-models and more than 100,000 data series.

The education sub-model is a critical component of the supply outlook model. The model forecasts the number of enrolments and graduates across eleven major fields of study, listed in Appendix A, for different levels of schooling. These forecasts can be translated into the occupations where these people are expected to look for employment. Figure 1 provides an overview of the supply outlook model and the role of the education component in forecasting labour supply.

The first section of the report looks at the projected educational attainment levels of Alberta's population. The remainder of the report gives an analysis of the major fields of study at different post-secondary education levels and by gender. Following the text, Appendix B details the assumptions underlying the education forecasts and Appendix C shows the results of the model projections.

Figure 1: **An Overview of Alberta's Occupational Supply Outlook Model**

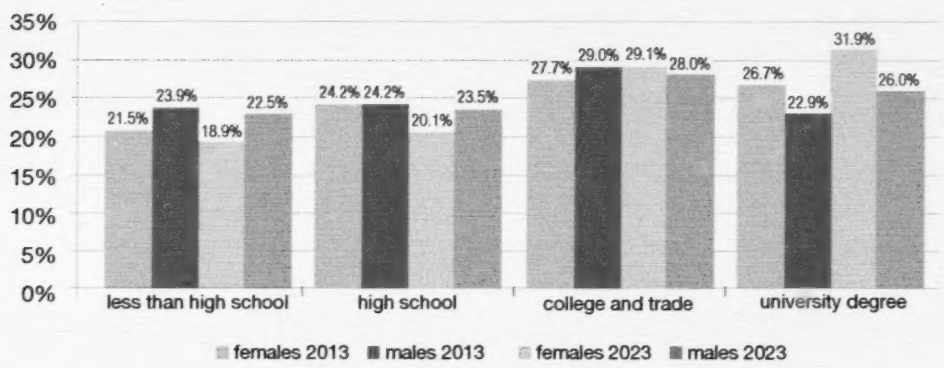



[1] *Available at http://eae.alberta.ca/documents/supply-outlook-model-education-and-skills.pdf*

# Educational attainment

Over the forecast period of 2013 to 2023, the proportion of people with a post-secondary education is expected to increase from 53.1% to 57.4%. Meanwhile, the other categories, less than high school and high school, are expected to decrease. Chart 1 compares the proportion of each gender projected to have attained each level of education in 2013 and 2023. It is expected that the proportion of females with post-secondary education in 2023 will exceed that of males, 61% compared to 54%.

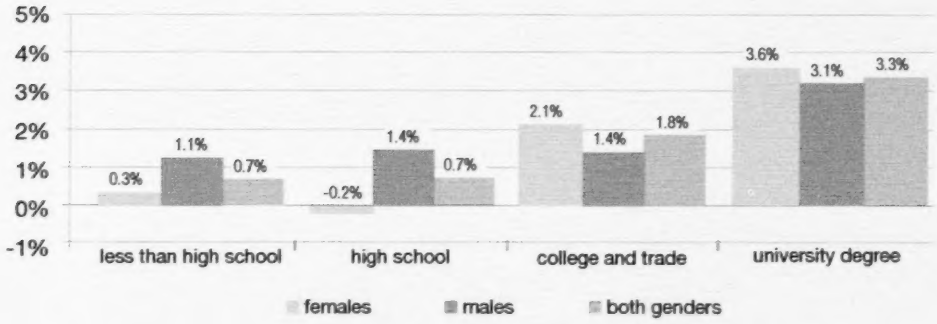
**Chart 1**
**Female and Male Educational Attainment 2013 and 2023**




*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

Chart 2 shows the average annual change in educational attainment between 2013 and 2023 for males, females, and for both genders. Attainment of degrees shows the highest average annual change (+3.3%) while less than high school attainment has the lowest (+0.7%). Females are expected to have higher growth rates than males for post-secondary levels of attainment. Females will see a decline in levels for the high school category.

**Chart 2**
**Average Annual Change in Educational Attainment 2013-2023**

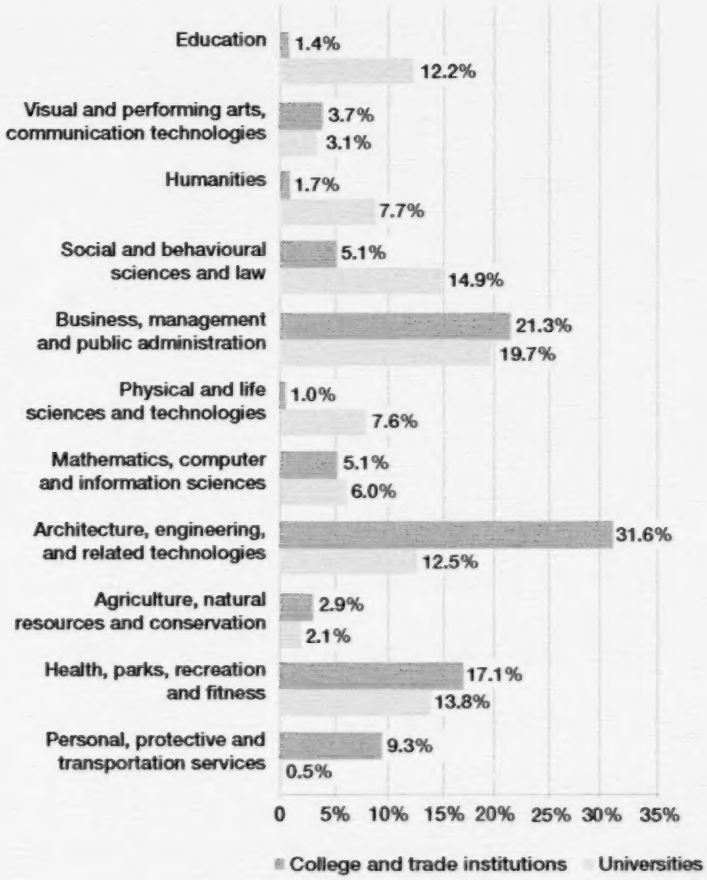



*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

# Major Fields of Study: College and Trade Institutions and Universities

Chart 3 compares the average proportions in each major field of study at college and trade institutions and at universities. Compared to college and trade institutions, universities will have higher proportions of graduates with education, humanities, social, science, physical and life science, and mathematical and computer science qualifications. Conversely, college and trade institutions will graduate higher proportions in the fields of visual and performing arts, business, architecture and engineering, agriculture, health, and personal services. These differences persist over the forecast period of 2013 to 2023.

**Chart 3**
**Average Proportions in Major Fields of Study**
**College and Trade Institutions and Universities 2013-2023**



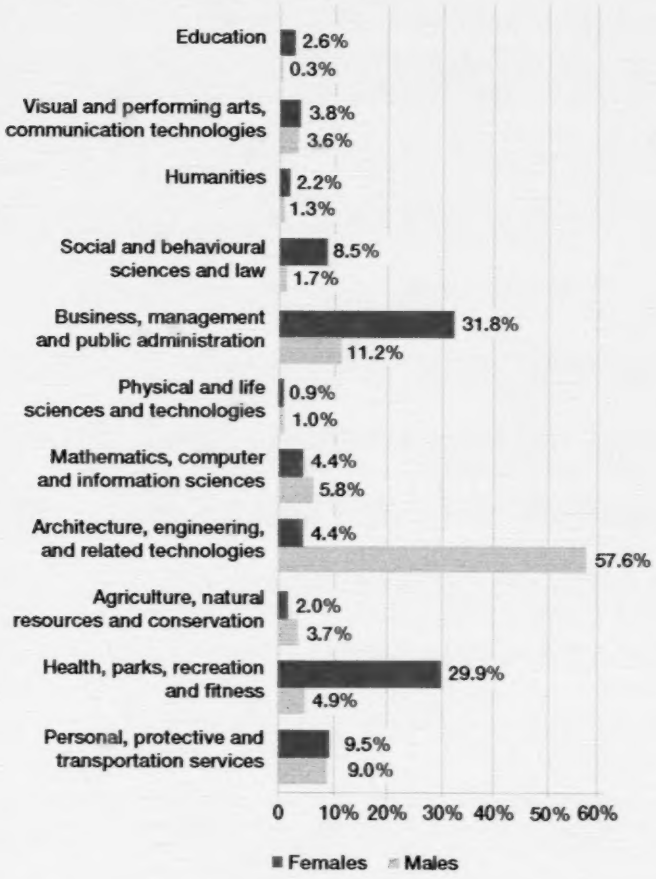

*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

## College and Trade Institutions

Chart 4 compares the average proportions of all college and trade graduates in each major field of study by gender for 2013 to 2023. There are higher proportions of females than males with qualifications in most major fields of study, except for architecture and engineering with 57.6% males compared to 4.4% females.

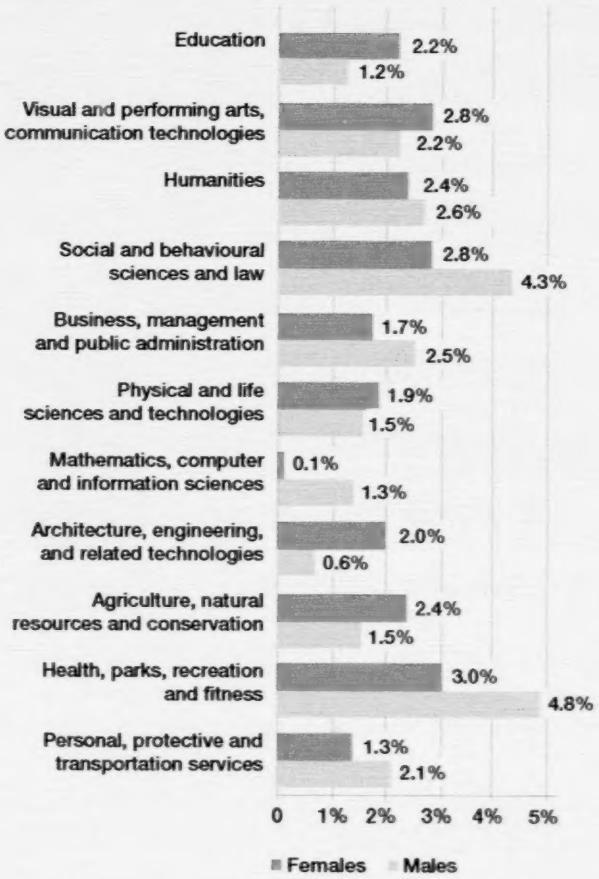
Chart 5 shows that males are anticipated to have higher average annual growth rates than females in social science, health, business, humanities, mathematical and computer science, and personal service fields. Females are expected to have higher growth rates in education, visual and performing arts, architecture and engineering, and agriculture fields.

**Chart 4**
**Average Populations in Major Fields of Study**
**College and Trade Institutions 2013-2023**




*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

**Chart 5**
**Average Annual Change by Major Fields of Study**
**College and Trade Institutions 2013-2023**



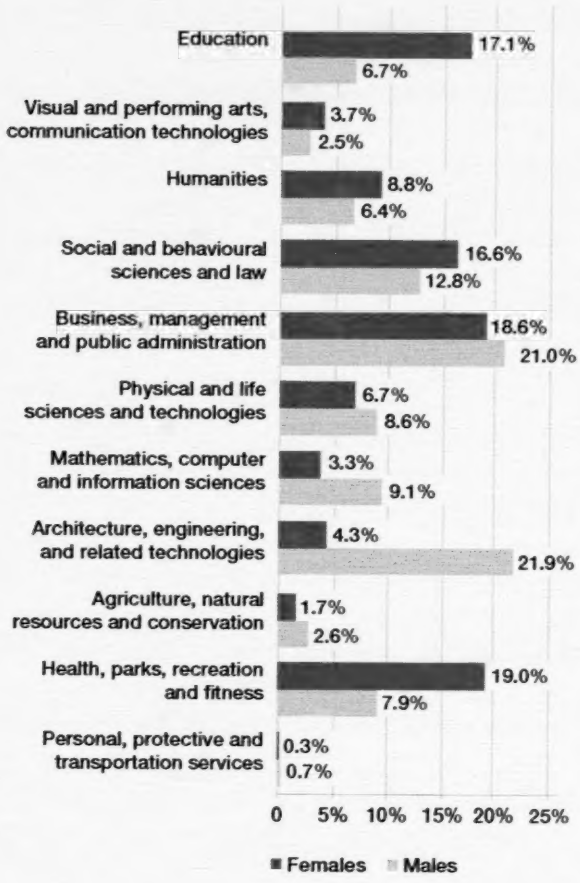

*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

## Universities

Chart 6 shows the average proportions of all university graduates in each major field of study by gender for 2013 to 2023. A higher proportion of females than males is expected to graduate with qualifications in education, visual and performing arts, humanities, social science, and health. Males are expected to graduate in higher proportions in business, physical and life sciences, architecture and engineering, mathematical and computer sciences, agriculture, and personal services. This continues traditional gender patterns in fields of study.

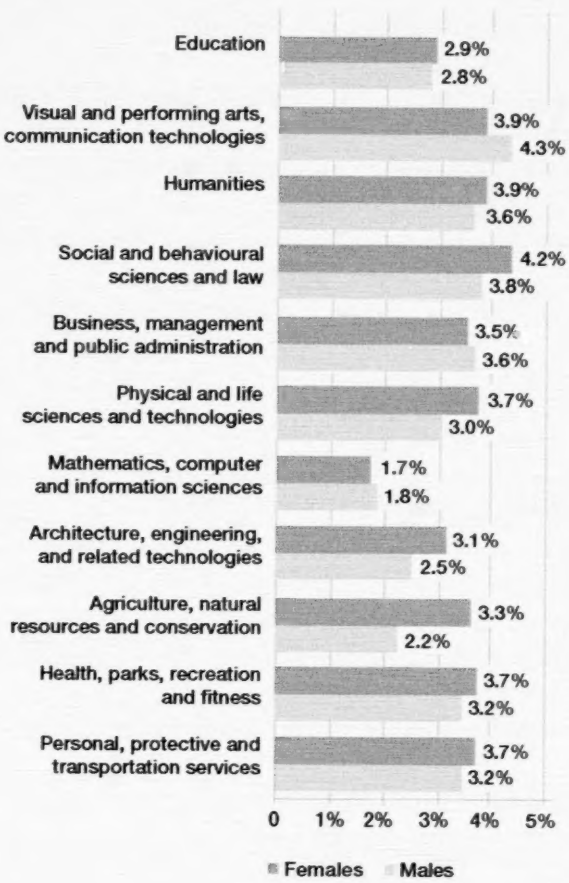
Enrolment rates for females are expected to increase at a faster rate than males over the forecast period, except in visual and performing arts, business, mathematical and computer sciences where male growth rates will exceed female rates (Chart 7).

**Chart 6**
**Average Proportions in Major Field of Study**
**Universities 2013-2023**




*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

**Chart 7**
**Average Annual Change by Major Field of Study**
**Universities 2013-2023**




*Data Source: Alberta's Occupational Supply Outlook Model, 2013-2023*

# Summary and conclusion

Over the coming decade, 2013 to 2023, the overall level of educational attainment in Alberta is expected to increase as more people enroll in post-secondary institutions. The enrolment rates for females in post-secondary education will exceed that of males, resulting in a higher proportion of females having obtained a post-secondary education by 2023.

Compared to females, a higher proportion of males will be qualified in applied science technologies and trades at the college and university levels. On the other hand, higher proportions of females will have qualifications in health and business fields.

According to Alberta's Occupational Demand and Supply Outlook, 2013-2023 occupations related to the trades and health major fields of study are expected to be in need of labour over the coming decade.

**Appendix A**

## Major fields of study

- Education
- Visual and performing arts and communication technologies
- Humanities
- Social and behavioural sciences and law
- Business, management, and public administration
- Physical and life sciences and technologies
- Mathematics, computer, and information sciences
- Architecture, engineering, and related technologies
- Agriculture, natural resources, and conservation
- Health, parks, recreation, and fitness
- Personal, protective, and transportation services

**Appendix B**

# Education assumptions

A number of assumptions are used to derive the results of this forecast. The assumptions used to generate the results in Appendix C are described below.

## Enrolment and graduation

- The number of people who attend school is calculated as a share of the total number in that age or gender group. This proportion is based on historic shares.
- The secondary school enrolment rates for males and females over the forecast follow the historical trends from 2002-2003 to 2011-2012.
- Enrolment rates for post-secondary institutions over the forecast were kept constant at the 2011-2012 school year rates.
- Graduation rates are determined by level of schooling, major field of study, age and gender. Graduation rates are calculated as a share of those who could potentially graduate and are kept constant over the forecast period.
- The overall number of university, college and trades graduates is determined by applying the graduate rate to the different age groups who are enrolled in that institution and could potentially graduate.
- Drop-out rates and mature student rates are used for the different major fields of study and level of schooling.
- Migration rates by educational attainment are allowed to adjust to reflect relative demand conditions in Alberta.

## Educational attainment

- To calculate the number of people with university, college and trades, and high school education, a stock-flow approach[3] was used.
- Those with less than a high school education are determined to be those not already accounted for in other educational attainment categories.
- Less than high school educational attainment is adjusted to reflect the estimated portion of mature students in post-secondary institutions that do not have a high school diploma. High school educational attainment is also adjusted to subtract recent graduates from university, college and trades.
- The overall enrolment rate for mature students is used for all age groups within the mature student category.
- To project educational attainment by major field of study, the historic relative enrolment rate is maintained over the projected period. The share of new graduates by field of study for each age and gender group is constant over time.
- The share of new graduates by major field of study is constant over time.
- University transfer programs are included as university enrolment and university certificates are classified as college and technical.
- Educational attainment is based on the new graduate forecast plus net inflows from migration less deaths.

*[3] Stock-Flow Approach: A method in estimating the future population of people in a group of interest. To find the forecasted population, the population from the previous year is adjusted to add those expected to enter that group and subtract those that are expected to leave that group. Example:*

Number of people with college/ trades training $_{t+1}$ = Number of people with college/ trades training $_{t}$ + Recent graduates of college/trades $_{t+1}$ − People leaving group due to death, retirement, etc. $_{t+1}$

## Appendix C

### Educational attainment

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Both genders | | | | | | | | | | | | |
| Less than high school | 728,082 | 731,873 | 735,826 | 739,806 | 743,642 | 748,780 | 753,788 | 758,867 | 764,868 | 773,212 | 783,080 | |
| % of total | 22.7% | 22.4% | 22.1% | 21.9% | 21.6% | 21.4% | 21.2% | 21.0% | 20.9% | 20.8% | 20.7% | |
| Growth rate (%) | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.8 | 1.1 | 1.3 | 0.7 |
| High school | 776,249 | 781,664 | 786,680 | 791,402 | 796,134 | 800,955 | 806,063 | 811,345 | 816,507 | 821,839 | 827,956 | |
| % of total | 24.2% | 23.9% | 23.7% | 23.4% | 23.2% | 22.9% | 22.7% | 22.5% | 22.3% | 22.1% | 21.9% | |
| Growth rate (%) | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 |
| College and trade | 909,735 | 927,705 | 945,440 | 962,897 | 980,267 | 997,436 | 1,014,529 | 1,031,456 | 1,047,870 | 1,063,765 | 1,079,618 | |
| % of total | 28.4% | 28.4% | 28.4% | 28.5% | 28.5% | 28.5% | 28.6% | 28.6% | 28.6% | 28.6% | 28.5% | |
| Growth rate (%) | 2.1 | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.8 |
| University degree | 793,960 | 825,153 | 856,159 | 886,839 | 917,342 | 947,535 | 977,500 | 1,007,147 | 1,036,205 | 1,064,644 | 1,092,866 | |
| % of total | 24.7% | 25.3% | 25.8% | 26.2% | 26.7% | 27.1% | 27.5% | 27.9% | 28.3% | 28.6% | 28.9% | |
| Growth rate (%) | 4.1 | 3.9 | 3.8 | 3.6 | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 | 2.7 | 3.3 |
| Females | | | | | | | | | | | | |
| Less than high school | 338,245 | 338,317 | 338,446 | 338,500 | 338,372 | 339,032 | 339,772 | 340,812 | 342,350 | 345,298 | 349,073 | |
| % of total | 21.5% | 21.1% | 20.8% | 20.4% | 20.1% | 19.8% | 19.5% | 19.3% | 19.1% | 19.0% | 18.9% | |
| Growth rate (%) | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.5 | 0.9 | 1.1 | 0.3 |
| High school | 380,257 | 379,552 | 378,684 | 377,698 | 376,704 | 375,749 | 374,948 | 374,261 | 373,549 | 372,995 | 372,868 | |
| % of total | 24.2% | 23.7% | 23.2% | 22.8% | 22.4% | 22.0% | 21.6% | 21.2% | 20.8% | 20.5% | 20.1% | |
| Growth rate (%) | -0.1 | -0.2 | -0.2 | -0.3 | -0.3 | -0.3 | -0.2 | -0.2 | -0.2 | -0.1 | 0.0 | -0.2 |
| College and trade | 435,971 | 446,737 | 457,385 | 467,893 | 478,344 | 488,677 | 498,943 | 509,100 | 518,994 | 528,627 | 538,223 | |
| % of total | 27.7% | 27.9% | 28.1% | 28.2% | 28.4% | 28.6% | 28.7% | 28.8% | 28.9% | 29.0% | 29.1% | |
| Growth Rate (%) | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.2 | 2.1 | 2.0 | 1.9 | 1.9 | 1.8 | 2.2 |
| University degree | 419,717 | 437,550 | 455,275 | 472,815 | 490,240 | 507,477 | 524,563 | 541,451 | 558,007 | 574,225 | 590,315 | |
| % of total | 26.7% | 27.3% | 27.9% | 28.5% | 29.1% | 29.7% | 30.2% | 30.7% | 31.1% | 31.5% | 31.9% | |
| Growth rate (%) | 4.5 | 4.2 | 4.1 | 3.9 | 3.7 | 3.5 | 3.4 | 3.2 | 3.1 | 2.9 | 2.8 | 3.6 |
| Males | | | | | | | | | | | | |
| Less than high school | 389,837 | 393,556 | 397,380 | 401,307 | 405,269 | 409,747 | 414,016 | 418,055 | 422,518 | 427,914 | 434,007 | |
| % of total | 23.9% | 23.6% | 23.5% | 23.3% | 23.1% | 23.0% | 22.8% | 22.7% | 22.6% | 22.5% | 22.5% | |
| Growth rate (%) | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.1 | 1.3 | 1.4 | 1.1 |
| High school | 395,992 | 402,113 | 407,996 | 413,705 | 419,431 | 425,206 | 431,115 | 437,083 | 442,958 | 448,843 | 455,088 | |
| % of total | 24.2% | 24.2% | 24.1% | 24.0% | 23.9% | 23.8% | 23.8% | 23.7% | 23.7% | 23.6% | 23.5% | |
| Growth rate (%) | 1.7 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.4 | 1.4 |
| College and trade | 473,763 | 480,968 | 488,055 | 495,005 | 501,924 | 508,759 | 515,586 | 522,356 | 528,876 | 535,138 | 541,394 | |
| % of total | 29.0% | 28.9% | 28.8% | 28.7% | 28.6% | 28.5% | 28.4% | 28.3% | 28.2% | 28.1% | 28.0% | |
| Growth rate (%) | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.4 |
| University degree | 374,243 | 387,603 | 400,884 | 414,025 | 427,101 | 440,058 | 452,937 | 465,696 | 478,198 | 490,420 | 502,551 | |
| % of total | 22.9% | 23.3% | 23.7% | 24.0% | 24.4% | 24.7% | 25.0% | 25.3% | 25.5% | 25.8% | 26.0% | |
| Growth rate (%) | 3.7 | 3.6 | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 3.1 |

## Appendix C

**Major fields of study: College and trade institutions**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Both genders | | | | | | | | | | | | |
| Education | 12,911 | 13,216 | 13,519 | 13,816 | 14,113 | 14,407 | 14,700 | 14,991 | 15,274 | 15,550 | 15,826 | |
| % of total | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.5% | 1.5% | 1.5% | 1.5% | |
| Growth rate (%) | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.1 | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 2.1 |
| Visual and performing arts and communication technologies | 32,304 | 33,231 | 34,143 | 35,040 | 35,932 | 36,811 | 37,684 | 38,546 | 39,382 | 40,189 | 40,993 | |
| % of total | 3.6% | 3.6% | 3.6% | 3.6% | 3.7% | 3.7% | 3.7% | 3.7% | 3.8% | 3.8% | 3.8% | |
| Growth rate (%) | 3.1 | 2.9 | 2.7 | 2.6 | 2.5 | 2.4 | 2.4 | 2.3 | 2.2 | 2.0 | 2.0 | 2.5 |
| Humanitites | 14,863 | 15,290 | 15,712 | 16,127 | 16,541 | 16,951 | 17,360 | 17,765 | 18,156 | 18,532 | 18,907 | |
| % of total | 1.6% | 1.6% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.8% | |
| Growth rate (%) | 3.1 | 2.9 | 2.8 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.0 | 2.5 |
| Social and behavioural sciences and law | 43,096 | 44,631 | 46,148 | 47,642 | 49,126 | 50,591 | 52,043 | 53,477 | 54,872 | 56,230 | 57,577 | |
| % of total | 4.7% | 4.8% | 4.9% | 4.9% | 5.0% | 5.1% | 5.1% | 5.2% | 5.2% | 5.3% | 5.3% | |
| Growth rate (%) | 3.8 | 3.6 | 3.4 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.6 | 2.5 | 2.4 | 3.0 |
| Business, management, and public administration | 191,832 | 195,986 | 200,087 | 204,128 | 208,146 | 212,118 | 216,068 | 219,977 | 223,773 | 227,455 | 231,125 | |
| % of total | 21.1% | 21.1% | 21.2% | 21.2% | 21.2% | 21.3% | 21.3% | 21.3% | 21.4% | 21.4% | 21.4% | |
| Growth rate (%) | 2.3 | 2.2 | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.7 | 1.6 | 1.6 | 1.9 |
| Physical and life sciences and technologies | 8,791 | 8,959 | 9,125 | 9,288 | 9,451 | 9,612 | 9,772 | 9,932 | 10,085 | 10,231 | 10,378 | |
| % of total | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | |
| Growth rate (%) | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.4 | 1.4 | 1.7 |
| Mathematics, computer, and information sciences | 48,543 | 48,945 | 49,342 | 49,733 | 50,126 | 50,514 | 50,906 | 51,294 | 51,657 | 51,998 | 52,339 | |
| % of total | 5.3% | 5.3% | 5.2% | 5.2% | 5.1% | 5.1% | 5.0% | 5.0% | 4.9% | 4.9% | 4.8% | |
| Growth rate (%) | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 |
| Architecture, engineering, and related technologies | 303,069 | 305,358 | 307,601 | 309,787 | 311,978 | 314,145 | 316,332 | 318,512 | 320,582 | 322,535 | 324,509 | |
| % of total | 33.3% | 32.9% | 32.5% | 32.2% | 31.8% | 31.5% | 31.2% | 30.9% | 30.6% | 30.3% | 30.1% | |
| Growth rate (%) | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 |
| Agriculture, natural resources, and conservation | 25,883 | 26,415 | 26,938 | 27,451 | 27,958 | 28,456 | 28,949 | 29,436 | 29,908 | 30,364 | 30,818 | |
| % of total | 2.8% | 2.8% | 2.8% | 2.9% | 2.9% | 2.9% | 2.9% | 2.9% | 2.9% | 2.9% | 2.9% | |
| Growth rate (%) | 2.2 | 2.1 | 2.0 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.8 |
| Health, parks, recreation, and fitness | 143,995 | 149,624 | 155,197 | 160,707 | 166,172 | 171,573 | 176,927 | 182,222 | 187,415 | 192,508 | 197,566 | |
| % of total | 15.8% | 16.1% | 16.4% | 16.7% | 17.0% | 17.2% | 17.4% | 17.7% | 17.9% | 18.1% | 18.3% | |
| Growth rate (%) | 4.1 | 3.9 | 3.7 | 3.6 | 3.4 | 3.3 | 3.1 | 3.0 | 2.8 | 2.7 | 2.6 | 3.3 |
| Personal, protective, and transportation services | 84,448 | 86,048 | 87,626 | 89,177 | 90,726 | 92,258 | 93,789 | 95,304 | 96,766 | 98,174 | 99,581 | |
| % of total | 9.3% | 9.3% | 9.3% | 9.3% | 9.3% | 9.2% | 9.2% | 9.2% | 9.2% | 9.2% | 9.2% | |
| Growth rate (%) | 2.0 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.7 |

## Appendix C

**Major fields of study: College and trade institutions - continued**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Females | | | | | | | | | | | | |
| Education | 11,294 | 11,579 | 11,861 | 12,139 | 12,415 | 12,689 | 12,962 | 13,232 | 13,497 | 13,754 | 14,011 | |
| % of total | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | 2.6% | |
| Growth rate (%) | 2.7 | 2.5 | 2.4 | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | 2.0 | 1.9 | 1.9 | 2.2 |
| Visual and performing arts and communication technologies | 16,092 | 16,616 | 17,134 | 17,645 | 18,152 | 18,651 | 19,146 | 19,635 | 20,109 | 20,570 | 21,027 | |
| % of total | 3.7% | 3.7% | 3.7% | 3.8% | 3.8% | 3.8% | 3.8% | 3.9% | 3.9% | 3.9% | 3.9% | |
| Growth rate (%) | 3.5 | 3.3 | 3.1 | 3.0 | 2.9 | 2.7 | 2.7 | 2.6 | 2.4 | 2.3 | 2.2 | 2.8 |
| Humanitites | 9,311 | 9,568 | 9,821 | 10,072 | 10,322 | 10,570 | 10,818 | 11,063 | 11,300 | 11,527 | 11,755 | |
| % of total | 2.1% | 2.1% | 2.1% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | 2.2% | |
| Growth rate (%) | 3.0 | 2.8 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.3 | 2.1 | 2.0 | 2.0 | 2.4 |
| Social and behavioural sciences and law | 36,097 | 37,259 | 38,407 | 39,538 | 40,662 | 41,773 | 42,877 | 43,966 | 45,026 | 46,057 | 47,083 | |
| % of total | 8.3% | 8.3% | 8.4% | 8.5% | 8.5% | 8.5% | 8.6% | 8.6% | 8.7% | 8.7% | 8.7% | |
| Growth rate (%) | 3.4 | 3.2 | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.8 |
| Business, management, and public administration | 141,924 | 144,600 | 147,244 | 149,852 | 152,449 | 155,018 | 157,576 | 160,107 | 162,564 | 164,946 | 167,324 | |
| % of total | 32.6% | 32.4% | 32.2% | 32.0% | 31.9% | 31.7% | 31.6% | 31.4% | 31.3% | 31.2% | 31.1% | |
| Growth rate (%) | 2.0 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.7 |
| Physical and life sciences and technologies | 4,162 | 4,251 | 4,340 | 4,426 | 4,513 | 4,599 | 4,685 | 4,770 | 4,852 | 4,930 | 5,009 | |
| % of total | 1.0% | 1.0% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | |
| Growth rate (%) | 2.3 | 2.1 | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.7 | 1.6 | 1.6 | 1.9 |
| Mathematics, computer, and information sciences | 21,140 | 21,156 | 21,171 | 21,187 | 21,204 | 21,223 | 21,244 | 21,266 | 21,283 | 21,293 | 21,306 | |
| % of total | 4.8% | 4.7% | 4.6% | 4.5% | 4.4% | 4.3% | 4.3% | 4.2% | 4.1% | 4.0% | 4.0% | |
| Growth rate (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| Architecture, engineering, and related technologies | 19,384 | 19,835 | 20,278 | 20,716 | 21,149 | 21,574 | 21,995 | 22,408 | 22,810 | 23,201 | 23,590 | |
| % of total | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | 4.4% | |
| Growth rate (%) | 2.4 | 2.3 | 2.2 | 2.2 | 2.1 | 2.0 | 2.0 | 1.9 | 1.8 | 1.7 | 1.7 | 2.0 |
| Agriculture, natural resources, and conservation | 8,455 | 8,689 | 8,920 | 9,147 | 9,370 | 9,589 | 9,806 | 10,018 | 10,224 | 10,425 | 10,624 | |
| % of total | 1.9% | 1.9% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | |
| Growth rate (%) | 2.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.3 | 2.2 | 2.1 | 2.0 | 1.9 | 2.4 |
| Health, parks, recreation, and fitness | 124,792 | 129,246 | 133,657 | 138,019 | 142,348 | 146,628 | 150,873 | 155,073 | 159,192 | 163,231 | 167,246 | |
| % of total | 28.6% | 28.9% | 29.2% | 29.5% | 29.8% | 30.0% | 30.2% | 30.5% | 30.7% | 30.9% | 31.1% | |
| Growth rate (%) | 3.8 | 3.6 | 3.4 | 3.3 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.5 | 2.5 | 3.0 |
| Personal, protective, and transportation services | 43,320 | 43,938 | 44,550 | 45,153 | 45,759 | 46,360 | 46,963 | 47,562 | 48,139 | 48,692 | 49,248 | |
| % of total | 9.9% | 9.8% | 9.7% | 9.7% | 9.6% | 9.5% | 9.4% | 9.3% | 9.3% | 9.2% | 9.2% | |
| Growth rate (%) | 1.5 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.1 | 1.1 | 1.3 |

## Appendix C

**Major fields of study: College and trade institutions - continued**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Males | | | | | | | | | | | | |
| Education | 1,616 | 1,637 | 1,658 | 1,678 | 1,698 | 1,718 | 1,738 | 1,758 | 1,778 | 1,796 | 1,815 | |
| % of total | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | |
| Growth rate (%) | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.0 | 1.1 | 1.2 |
| Visual and performing arts and communication technologies | 16,213 | 16,614 | 17,009 | 17,396 | 17,780 | 18,160 | 18,537 | 18,912 | 19,272 | 19,619 | 19,964 | |
| % of total | 3.4% | 3.5% | 3.5% | 3.5% | 3.5% | 3.6% | 3.6% | 3.6% | 3.6% | 3.7% | 3.7% | |
| Growth rate (%) | 2.7 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.1 | 2.0 | 1.9 | 1.8 | 1.8 | 2.2 |
| Humanitites | 5,552 | 5,723 | 5,890 | 6,055 | 6,219 | 6,381 | 6,543 | 6,702 | 6,856 | 7,004 | 7,152 | |
| % of total | 1.2% | 1.2% | 1.2% | 1.2% | 1.2% | 1.3% | 1.3% | 1.3% | 1.3% | 1.3% | 1.3% | |
| Growth rate (%) | 3.3 | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.6 |
| Social and behavioural sciences and law | 6,998 | 7,372 | 7,741 | 8,104 | 8,464 | 8,817 | 9,167 | 9,511 | 9,846 | 10,172 | 10,494 | |
| % of total | 1.5% | 1.5% | 1.6% | 1.6% | 1.7% | 1.7% | 1.8% | 1.8% | 1.9% | 1.9% | 1.9% | |
| Growth rate (%) | 5.6 | 5.3 | 5.0 | 4.7 | 4.4 | 4.2 | 4.0 | 3.8 | 3.5 | 3.3 | 3.2 | 4.3 |
| Business, management, and public administration | 49,908 | 51,386 | 52,843 | 54,276 | 55,697 | 57,100 | 58,493 | 59,870 | 61,209 | 62,508 | 63,800 | |
| % of total | 10.5% | 10.7% | 10.8% | 11.0% | 11.1% | 11.2% | 11.3% | 11.5% | 11.6% | 11.7% | 11.8% | |
| Growth rate (%) | 3.1 | 3.0 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.4 | 2.2 | 2.1 | 2.1 | 2.5 |
| Physical and life sciences and technologies | 4,629 | 4,708 | 4,785 | 4,862 | 4,937 | 5,012 | 5,087 | 5,162 | 5,234 | 5,301 | 5,369 | |
| % of total | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | |
| Growth rate (%) | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.5 |
| Mathematics, computer, and information sciences | 27,402 | 27,789 | 28,171 | 28,545 | 28,921 | 29,291 | 29,662 | 30,027 | 30,375 | 30,705 | 31,033 | |
| % of total | 5.8% | 5.8% | 5.8% | 5.8% | 5.8% | 5.8% | 5.8% | 5.7% | 5.7% | 5.7% | 5.7% | |
| Growth rate (%) | 1.5 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.3 |
| Architecture, engineering, and related technologies | 283,685 | 285,523 | 287,322 | 289,071 | 290,829 | 292,571 | 294,337 | 296,104 | 297,771 | 299,334 | 300,920 | |
| % of total | 59.9% | 59.4% | 58.9% | 58.4% | 57.9% | 57.5% | 57.1% | 56.7% | 56.3% | 55.9% | 55.6% | |
| Growth rate (%) | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 |
| Agriculture, natural resources, and conservation | 17,428 | 17,726 | 18,019 | 18,305 | 18,588 | 18,867 | 19,144 | 19,419 | 19,683 | 19,939 | 20,194 | |
| % of total | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | |
| Growth rate (%) | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | 1.3 | 1.5 |
| Health, parks, recreation, and fitness | 19,203 | 20,378 | 21,541 | 22,688 | 23,824 | 24,944 | 26,054 | 27,149 | 28,223 | 29,277 | 30,319 | |
| % of total | 4.1% | 4.2% | 4.4% | 4.6% | 4.7% | 4.9% | 5.1% | 5.2% | 5.3% | 5.5% | 5.6% | |
| Growth rate (%) | 6.5 | 6.1 | 5.7 | 5.3 | 5.0 | 4.7 | 4.4 | 4.2 | 4.0 | 3.7 | 3.6 | 4.8 |
| Personal, protective, and transportation services | 41,128 | 42,110 | 43,076 | 44,025 | 44,967 | 45,898 | 46,824 | 47,742 | 48,628 | 49,482 | 50,333 | |
| % of total | 8.7% | 8.8% | 8.8% | 8.9% | 9.0% | 9.0% | 9.1% | 9.1% | 9.2% | 9.2% | 9.3% | |
| Growth rate (%) | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.1 | 2.0 | 2.0 | 1.9 | 1.8 | 1.7 | 2.1 |

## Appendix C

**Major fields of study: Universities**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Both genders | | | | | | | | | | | | |
| Education | 99,342 | 102,664 | 105,994 | 109,297 | 112,590 | 115,857 | 119,109 | 122,334 | 125,502 | 128,609 | 131,698 | |
| % of total | 12.5% | 12.4% | 12.4% | 12.3% | 12.3% | 12.2% | 12.2% | 12.1% | 12.1% | 12.1% | 12.1% | |
| Growth rate (%) | 3.5 | 3.3 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.9 |
| Visual and performing arts and communication technologies | 23,747 | 24,921 | 26,083 | 27,230 | 28,369 | 29,494 | 30,609 | 31,711 | 32,790 | 33,846 | 34,893 | |
| % of total | 3.0% | 3.0% | 3.0% | 3.1% | 3.1% | 3.1% | 3.1% | 3.1% | 3.2% | 3.2% | 3.2% | |
| Growth rate (%) | 5.3 | 4.9 | 4.7 | 4.4 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | 3.1 | 4.0 |
| Humanitites | 59,504 | 62,233 | 64,916 | 67,568 | 70,204 | 72,811 | 75,399 | 77,957 | 80,462 | 82,912 | 85,344 | |
| % of total | 7.5% | 7.5% | 7.6% | 7.6% | 7.7% | 7.7% | 7.7% | 7.7% | 7.8% | 7.8% | 7.8% | |
| Growth rate (%) | 4.9 | 4.6 | 4.3 | 4.1 | 3.9 | 3.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 3.8 |
| Social and behavioural sciences and law | 113,764 | 119,298 | 124,841 | 130,321 | 135,764 | 141,147 | 146,484 | 151,759 | 156,927 | 161,983 | 166,997 | |
| % of total | 14.3% | 14.5% | 14.6% | 14.7% | 14.8% | 14.9% | 15.0% | 15.1% | 15.1% | 15.2% | 15.3% | |
| Growth rate (%) | 5.1 | 4.9 | 4.6 | 4.4 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | 3.1 | 4.0 |
| Business, management, and public administration | 154,423 | 161,009 | 167,525 | 173,973 | 180,387 | 186,739 | 193,046 | 199,292 | 205,420 | 211,423 | 217,384 | |
| % of total | 19.4% | 19.5% | 19.6% | 19.6% | 19.7% | 19.7% | 19.7% | 19.8% | 19.8% | 19.9% | 19.9% | |
| Growth rate (%) | 4.5 | 4.3 | 4.0 | 3.8 | 3.7 | 3.5 | 3.4 | 3.2 | 3.1 | 2.9 | 2.8 | 3.6 |
| Physical and life sciences and technologies | 60,194 | 62,592 | 64,971 | 67,320 | 69,648 | 71,946 | 74,220 | 76,465 | 78,663 | 80,812 | 82,941 | |
| % of total | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | 7.6% | |
| Growth rate (%) | 4.2 | 4.0 | 3.8 | 3.6 | 3.5 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 | 2.6 | 3.3 |
| Mathematics, computer, and information sciences | 51,324 | 52,314 | 53,293 | 54,265 | 55,238 | 56,205 | 57,171 | 58,130 | 59,066 | 59,977 | 60,883 | |
| % of total | 6.5% | 6.3% | 6.2% | 6.1% | 6.0% | 5.9% | 5.8% | 5.8% | 5.7% | 5.6% | 5.6% | |
| Growth rate (%) | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.7 |
| Architecture, engineering, and related technologies | 102,419 | 105,554 | 108,662 | 111,736 | 114,793 | 117,822 | 120,832 | 123,814 | 126,735 | 129,589 | 132,425 | |
| % of total | 12.9% | 12.8% | 12.7% | 12.6% | 12.5% | 12.4% | 12.4% | 12.3% | 12.2% | 12.2% | 12.1% | |
| Growth rate (%) | 3.2 | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.7 |
| Agriculture, natural resources, and conservation | 17,203 | 17,728 | 18,253 | 18,772 | 19,290 | 19,804 | 20,314 | 20,820 | 21,315 | 21,799 | 22,280 | |
| % of total | 2.2% | 2.1% | 2.1% | 2.1% | 2.1% | 2.1% | 2.1% | 2.1% | 2.1% | 2.0% | 2.0% | |
| Growth rate (%) | 3.1 | 3.1 | 3.0 | 2.8 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.7 |
| Health, parks, recreation, and fitness | 108,309 | 112,958 | 117,594 | 122,185 | 126,743 | 131,249 | 135,712 | 140,118 | 144,439 | 148,670 | 152,858 | |
| % of total | 13.6% | 13.7% | 13.7% | 13.8% | 13.8% | 13.9% | 13.9% | 13.9% | 13.9% | 14.0% | 14.0% | |
| Growth rate (%) | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | 3.6 | 3.4 | 3.2 | 3.1 | 2.9 | 2.8 | 3.6 |
| Personal, protective, and transportation services | 3,729 | 3,882 | 4,027 | 4,172 | 4,317 | 4,461 | 4,604 | 4,747 | 4,887 | 5,025 | 5,162 | |
| % of total | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | |
| Growth rate (%) | 4.3 | 4.1 | 3.7 | 3.6 | 3.5 | 3.3 | 3.2 | 3.1 | 2.9 | 2.8 | 2.7 | 3.4 |

## Appendix C

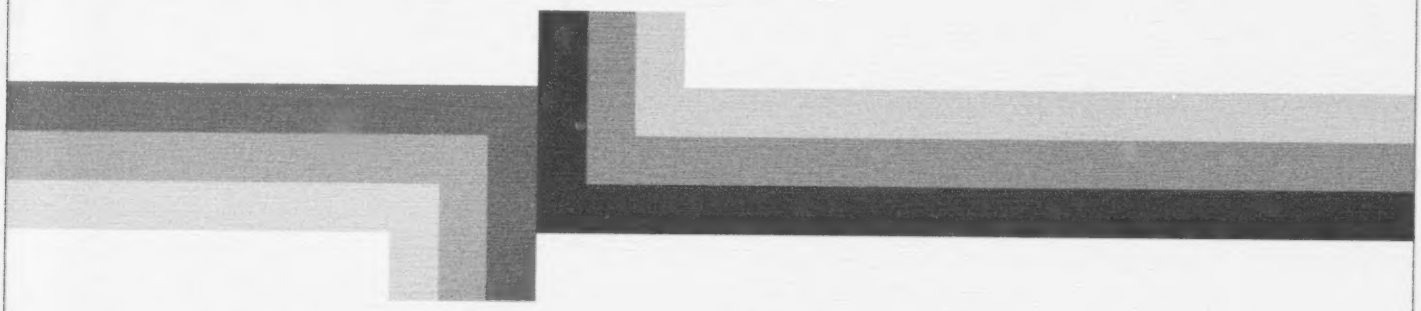
**Major fields of study: Universities - continued**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Females | | | | | | | | | | | | |
| Education | 74,088 | 76,595 | 79,108 | 81,600 | 84,082 | 86,544 | 88,992 | 91,418 | 93,801 | 96,138 | 98,462 | |
| % of total | 17.7% | 17.5% | 17.4% | 17.3% | 17.2% | 17.1% | 17.0% | 16.9% | 16.8% | 16.7% | 16.7% | |
| Growth rate (%) | 3.5 | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.9 |
| Visual and performing arts and communication technologies | 15,113 | 15,831 | 16,539 | 17,237 | 17,929 | 18,613 | 19,290 | 19,958 | 20,612 | 21,253 | 21,888 | |
| % of total | 3.6% | 3.6% | 3.6% | 3.6% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | 3.7% | |
| Growth rate (%) | 5.1 | 4.8 | 4.5 | 4.2 | 4.0 | 3.8 | 3.6 | 3.5 | 3.3 | 3.1 | 3.0 | 3.9 |
| Humanitites | 36,148 | 37,875 | 39,574 | 41,254 | 42,922 | 44,571 | 46,205 | 47,821 | 49,403 | 50,951 | 52,487 | |
| % of total | 8.6% | 8.7% | 8.7% | 8.7% | 8.8% | 8.8% | 8.8% | 8.8% | 8.9% | 8.9% | 8.9% | |
| Growth rate (%) | 5.1 | 4.8 | 4.5 | 4.2 | 4.0 | 3.8 | 3.7 | 3.5 | 3.3 | 3.1 | 3.0 | 3.9 |
| Social and behavioural sciences and law | 67,524 | 70,979 | 74,433 | 77,847 | 81,236 | 84,584 | 87,900 | 91,175 | 94,383 | 97,525 | 100,641 | |
| % of total | 16.1% | 16.2% | 16.3% | 16.5% | 16.6% | 16.7% | 16.8% | 16.8% | 16.9% | 17.0% | 17.0% | |
| Growth rate (%) | 5.4 | 5.1 | 4.9 | 4.6 | 4.4 | 4.1 | 3.9 | 3.7 | 3.5 | 3.3 | 3.2 | 4.2 |
| Business, management, and public administration | 78,139 | 81,444 | 84,706 | 87,935 | 91,147 | 94,327 | 97,483 | 100,607 | 103,672 | 106,676 | 109,661 | |
| % of total | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | 18.6% | |
| Growth rate (%) | 4.4 | 4.2 | 4.0 | 3.8 | 3.7 | 3.5 | 3.3 | 3.2 | 3.0 | 2.9 | 2.8 | 3.5 |
| Physical and life sciences and technologies | 27,893 | 29,162 | 30,417 | 31,656 | 32,884 | 34,095 | 35,291 | 36,471 | 37,626 | 38,755 | 39,874 | |
| % of total | 6.6% | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.8% | |
| Growth rate (%) | 4.8 | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | 3.5 | 3.3 | 3.2 | 3.0 | 2.9 | 3.7 |
| Mathematics, computer, and information sciences | 15,027 | 15,309 | 15,590 | 15,868 | 16,149 | 16,428 | 16,707 | 16,985 | 17,258 | 17,524 | 17,789 | |
| % of total | 3.6% | 3.5% | 3.4% | 3.4% | 3.3% | 3.2% | 3.2% | 3.1% | 3.1% | 3.1% | 3.0% | |
| Growth rate (%) | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.7 |
| Architecture, engineering, and related technologies | 18,403 | 19,084 | 19,760 | 20,429 | 21,094 | 21,751 | 22,402 | 23,046 | 23,675 | 24,292 | 24,903 | |
| % of total | 4.4% | 4.4% | 4.3% | 4.3% | 4.3% | 4.3% | 4.3% | 4.3% | 4.2% | 4.2% | 4.2% | |
| Growth rate (%) | 3.9 | 3.7 | 3.5 | 3.4 | 3.3 | 3.1 | 3.0 | 2.9 | 2.7 | 2.6 | 2.5 | 3.1 |
| Agriculture, natural resources, and conservation | 7,118 | 7,396 | 7,675 | 7,952 | 8,227 | 8,499 | 8,769 | 9,035 | 9,296 | 9,551 | 9,804 | |
| % of total | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | 1.7% | |
| Growth rate (%) | 4.0 | 3.9 | 3.8 | 3.6 | 3.5 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 | 2.6 | 3.3 |
| Health, parks, recreation, and fitness | 79,117 | 82,678 | 86,227 | 89,740 | 93,225 | 96,670 | 100,077 | 103,440 | 106,737 | 109,970 | 113,168 | |
| % of total | 18.9% | 18.9% | 18.9% | 19.0% | 19.0% | 19.0% | 19.1% | 19.1% | 19.1% | 19.2% | 19.2% | |
| Growth rate (%) | 4.7 | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 3.7 |
| Personal, protective, and transportation services | 1,146 | 1,197 | 1,247 | 1,297 | 1,347 | 1,397 | 1,446 | 1,495 | 1,543 | 1,591 | 1,638 | |
| % of total | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | |
| Growth rate (%) | 4.8 | 4.5 | 4.2 | 4.0 | 3.9 | 3.7 | 3.5 | 3.4 | 3.2 | 3.1 | 3.0 | 3.7 |

## Appendix C

**Major fields of study: Universities - continued**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Average 2013-2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Males | | | | | | | | | | | | |
| Education | 25,254 | 26,070 | 26,887 | 27,698 | 28,508 | 29,313 | 30,117 | 30,916 | 31,701 | 32,471 | 33,237 | |
| % of total | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.7% | 6.6% | 6.6% | 6.6% | 6.6% | 6.6% | |
| Growth rate (%) | 3.4 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.4 | 2.8 |
| Visual and performing arts and communication technologies | 8,634 | 9,090 | 9,544 | 9,994 | 10,440 | 10,881 | 11,319 | 11,753 | 12,177 | 12,593 | 13,005 | |
| % of total | 2.3% | 2.3% | 2.4% | 2.4% | 2.4% | 2.5% | 2.5% | 2.5% | 2.5% | 2.6% | 2.6% | |
| Growth rate (%) | 5.7 | 5.3 | 5.0 | 4.7 | 4.5 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | 3.3 | 4.3 |
| Humanitites | 23,356 | 24,357 | 25,341 | 26,314 | 27,282 | 28,241 | 29,193 | 30,136 | 31,059 | 31,961 | 32,857 | |
| % of total | 6.2% | 6.3% | 6.3% | 6.4% | 6.4% | 6.4% | 6.4% | 6.5% | 6.5% | 6.5% | 6.5% | |
| Growth rate (%) | 4.6 | 4.3 | 4.0 | 3.8 | 3.7 | 3.5 | 3.4 | 3.2 | 3.1 | 2.9 | 2.8 | 3.6 |
| Social and behavioural sciences and law | 46,240 | 48,319 | 50,407 | 52,473 | 54,528 | 56,563 | 58,584 | 60,584 | 62,543 | 64,458 | 66,356 | |
| % of total | 12.4% | 12.5% | 12.6% | 12.7% | 12.8% | 12.9% | 12.9% | 13.0% | 13.1% | 13.1% | 13.2% | |
| Growth rate (%) | 4.7 | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | 3.6 | 3.4 | 3.2 | 3.1 | 2.9 | 3.8 |
| Business, management, and public administration | 76,284 | 79,565 | 82,819 | 86,038 | 89,240 | 92,412 | 95,563 | 98,685 | 101,748 | 104,746 | 107,723 | |
| % of total | 20.4% | 20.5% | 20.7% | 20.8% | 20.9% | 21.0% | 21.1% | 21.2% | 21.3% | 21.4% | 21.4% | |
| Growth rate (%) | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | 3.6 | 3.4 | 3.3 | 3.1 | 2.9 | 2.8 | 3.6 |
| Physical and life sciences and technologies | 32,302 | 33,430 | 34,554 | 35,664 | 36,764 | 37,851 | 38,929 | 39,994 | 41,037 | 42,057 | 43,067 | |
| % of total | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | 8.6% | |
| Growth rate (%) | 3.6 | 3.5 | 3.4 | 3.2 | 3.1 | 3.0 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 3.0 |
| Mathematics, computer, and information sciences | 36,297 | 37,005 | 37,704 | 38,397 | 39,089 | 39,777 | 40,464 | 41,145 | 41,809 | 42,453 | 43,093 | |
| % of total | 9.7% | 9.5% | 9.4% | 9.3% | 9.2% | 9.0% | 8.9% | 8.8% | 8.7% | 8.7% | 8.6% | |
| Growth rate (%) | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.8 |
| Architecture, engineering, and related technologies | 84,016 | 86,470 | 88,902 | 91,307 | 93,700 | 96,071 | 98,430 | 100,769 | 103,059 | 105,297 | 107,522 | |
| % of total | 22.4% | 22.3% | 22.2% | 22.1% | 21.9% | 21.8% | 21.7% | 21.6% | 21.6% | 21.5% | 21.4% | |
| Growth rate (%) | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 2.5 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.5 |
| Agriculture, natural resources, and conservation | 10,085 | 10,332 | 10,578 | 10,821 | 11,064 | 11,305 | 11,546 | 11,785 | 12,019 | 12,248 | 12,477 | |
| % of total | 2.7% | 2.7% | 2.6% | 2.6% | 2.6% | 2.6% | 2.5% | 2.5% | 2.5% | 2.5% | 2.5% | |
| Growth rate (%) | 2.5 | 2.4 | 2.4 | 2.3 | 2.2 | 2.2 | 2.1 | 2.1 | 2.0 | 1.9 | 1.9 | 2.2 |
| Health, parks, recreation, and fitness | 29,192 | 30,280 | 31,367 | 32,445 | 33,517 | 34,580 | 35,635 | 36,679 | 37,701 | 38,701 | 39,690 | |
| % of total | 7.8% | 7.8% | 7.8% | 7.8% | 7.8% | 7.9% | 7.9% | 7.9% | 7.9% | 7.9% | 7.9% | |
| Growth rate (%) | 3.8 | 3.7 | 3.6 | 3.4 | 3.3 | 3.2 | 3.1 | 2.9 | 2.8 | 2.7 | 2.6 | 3.2 |
| Personal, protective, and transportation services | 2,583 | 2,685 | 2,780 | 2,875 | 2,970 | 3,064 | 3,158 | 3,252 | 3,344 | 3,434 | 3,524 | |
| % of total | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | 0.7% | |
| Growth rate (%) | 4.1 | 3.9 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.0 | 2.8 | 2.7 | 2.6 | 3.2 |



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ISSN 2292-2644
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Published: January 2014.

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